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OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/007,693

DATE: 12/17/2001
TIME: 10:06:41

Input Set : A:\515c2.app
Output Set: N:\CRF3\12172001\J007693.raw

3 <110> APPLICANT: Bhatia, Ajay
4 Probst, Peter
8 <120> TITLE OF INVENTION: COMPOUNDS AND METHODS FOR TREATMENT
9 AND DIAGNOSIS OF CHLAMYDIAL INFECTION
11 <130> FILE REFERENCE: 210121.515C2
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/007,693
14 <141> CURRENT FILING DATE: 2001-12-05
16 <160> NUMBER OF SEQ ID NOS: 157
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19 <211> LENGTH: 1311
20 <212> TYPE: DNA
21 <213> ORGANISM: Chlamydia trachomatis
23 <400> SEQUENCE: 1
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26 ctttaacttag gagtcatcca tgagtcaaaaa taagaactct gctttcatgc agcctgtgaa 180
27 cgtatccgct gatttagctg ccatcggttgc tgccaggaccc atgcctcgca cagagatcat 240
28 taagaaaaatg tgggattaca ttaagaagaa tagccttcaa gatccttacaa acaaacgtaa 300
29 tatcaatccc gatgataaat tgcttaaagt ttttgaact gaaaaaccta tcgatatgtt 360
30 ccaaatgaca aaaatggtt ctcaacacat cattaaataa aatagaaatt gactcacgtg 420
31 ttccctcgctt ttaagatgag gaacttagttt attcttttgc ttccgttgc tgggttattac 480
32 tgtatcttta acaactatct tagcagcacc tggtttgaca tgggtttggg ccaatcactt 540
33 agagcctaac ctattgagag taacgcgtt aaatttggaaat ctgcctaaaaa aatttgccta 600
34 tcttcatggg ctccgcattt tacagatttc ggatttacac ctaaaccact cgacgcctga 660
35 tgcctttcta aaaaaagttt ctcgttaagat ctcttcttct tctccagata ttcttgttatt 720
36 tacaggagac ttgtctgtc gcgcctaaatg agaaactctt gaaagattaa aacatttcct 780
37 atgttctctg catgcgcctt taggctgtt tgcttgccta ggaaatcatg attacgcac 840
38 ctacgtatcc cgtgatattc acggaaaaat taataccatc ttagcaatga atagccgtcc 900
39 tttaaaaaaga gcttttaccc ctgtttatca aagtcttattc gcctttctc gcaatgaatt 960
40 tgcagatact ctgaatccac aaattcctaa tccacaccta gtcagttat ttagcaatac 1020
41 tccatttcaa ttattgcata atcaaagcgc gacactttcc gatacaatca acatcgtggg 1080
42 attaggcgat ttttttgcca aacaattcga tcccaaaaaa gcttttactg actataatcc 1140
43 cacgttaccc ggtattatcc ttcttcataa tcccgatacg attcaccatc tccaaagatta 1200
44 cccaggtgat gttgtttttt ccgggcactc gcatggccct caaatctctc ttccctggcc 1260
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52 <400> SEQUENCE: 2
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55 cccaaaccaag ctctctgcgg tgctgaaaaa acctaaattc aaaagaatgaa ctgcggctc 180
56 atcttcagaa agacgatccg acttccataa ttgcgttct ttcccccatttgg ggatctctgt 240
57 agggagccag ttatttgcgc agccattcaa ataatgttcc caagcccatt tggacttaat 300
58 aggaacaagt tgggtgacat cgacctgggtt gcagttcaact agacgcttgc tatttagatt 360
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ENTERED

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 61 ctttcttcgc tctttcaaca ataattcctg ccgaagcaga cttattcttc atccaaacgag 540
 62 gctgaattcc tctcttatta atatctacaa aagattttc aacggtcgtt gctgtatgaag 600
 63 atctcagata atacgttagtt ttcaaaacctt tttccaagc cgttaaatac atattcgaca 660
 64 gtttttccc gtctggctgg gcaagataaa ggttgaggga ttgccccata tcaatccatt 720
 65 tttgtcttcg agacgcgcattc tgataatcc attctgggtc aatctcaaaa gctgtcaaga 780
 66 aaatatgttt taagtatctt ggtatacgtt cgatttccaa taaagaccata tcaaaatatt 840
 67 tcaggtcato taacatatca gcatcccaga tacctaattt cttcaacttc tcaattaaat 900
 68 acacatttgg aatcgtgaat tctccggaca aatttagactt cacaacaaa tgtttgcgt 960
 69 ttggctcaat agattgagtt actcctataa tggatcgatc cgtcgctgtc ggagctata 1020
 70 ccataagctg acaatgtcgc ataccatgtt cttaacccaa actacggata ggttcccaat 1080
 71 ctttcttga tgacgtatcc atctggagat ttgcttctcc tcgatagttc gctaacaact 1140
 72 gaatcgtatc aataggggagc aaacctctat cccatttcga tcctttataa gagctgttaag 1200
 73 tgcctcggtt tttagcggc agacaagaag cttgaatcgc atagtaagaa atcaactctg 1260
 74 aactgttagtc agcaaattct acagcttctt gcgaagcata gcttatactt agcttataca 1320
 75 aggcatttgc gaatccatc acccctaattt caatagcgcg gtgagcaaa ttcgcctt 1380
 76 tagttccctt tggtggataa aagttataat caatcacgtt atccaaacata cggactgta 1440
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 88 tcgagaagag gataaggtag atgggcaaat ccctgaagtc ttgatctcgt gcaatgcagg 180
 89 ggtatgtt tttccggaa attcctcgaa gcgtgtatgatc catttccctc atacagggtgg 240
 90 gggagccatt ttttccatcaaa atttgcgtt ttctcagaat acaggaaatg ttctgtttta 300
 91 taacaacgtg gcctgttcgg gaggagctgt tcgtatagag gatcatggta atgttctttt 360
 92 agaagctttt ggaggagata ttgtttttaa agggaaattct tctttcagag cacaaggatc 420
 93 cgtgccatc tattttgcag gtaaaagaatc gcatattaca gccctgaatg ctacggagg 480
 94 acatgttattt gttttccacg acgcattatgtt ttttggaaat ctagaaagaaa gggaaatctgc 540
 95 tgaagtattt ttaatcaata gtcgagaaaaa tccaggttca aaatttctca agtttgcgt 600
 96 aattgtgcta ttgcgttacat ttagttttctt atgtccacgg taaaggggatc gggaaagatac 660
 97 gcatattttt tcatagtctt tagcttcgtt ccctagtgtt tccgcgttgc ctcgtctgccc 720
 98 aagactttt gttacggaaa caacaggctc tcgttgagaa atgatttgcgtt gtagctctag 780
 99 cgtgagggtgt tttttctgtt ttcgtgggtt tgaaagatttgcgtt actagaggag agacttcaat 840
 100 acataactcg ctgcgtttt ttaataaaaat ttgaccagag gagggtctttt ccgcactgctc 900
 101 tagtaataga cgaatattgc ccaatgtctt ggaagcattt ttccctgtt catctcgaaa 960
 102 ctttgcgcag gattccaattt cttcgattac tgtaaaaagggataatgtatgc gagtttgcgt 1020
 103 aaaagaggaa agggccttag gatcgtaaat caaaacgtt gatcaataa cagagggtttt 1080
 104 ttccattaca aattccatcaaa tgactcaagt gtaagggggatc gatgtactt tgattgtgt 1140
 105 tcatatccag aaaaattaaa acatgttctt gtttagagaga agtcgggaga gagggttttt 1200
 106 agcaatcaac ctccgcgtgt gctaattctgtt ttgtcaaaaaa ttttccctt aactacaatg 1260
 107 ccgaggaaatc cgagtccttc ttgtggaggt tgatgttgcgtt gtcggggatc atgtatgtt 1320
 108 cattttgtatt tccctatatac ttctgtgtt gatgtactt gtttagagaga agtcgggaga gagggttttt 1380
 109 tgatgggggg acggaaaggggatc gttttttttt gaaactccat ttaattgtatgc gagggatc 1440
 110 ctctatacccaatctaggac aagcgattgt tgatgttgcgtt ttccaaagggatc acttgcata 1500

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111 ttttagagtcc acagctcctc agaaaaacaa ggaagaggaa aaaattagct ctttggtagg 1560
 112 agctgttcaa caaatggcta aaggatgctg agtacagggtt ttttctcaaa agggcttgg 1620
 113 ttctatgtta ctaggaggag ctgggtcgat taatatgtt gttcaacatt ctccagaaca 1680
 114 taaggatcat cctgatcttc ctaccgattt actggagagg atagcgcaaa tgatgcgttc 1740
 115 attatctata ggaccaactt ctatcttgc taagccagag cctcatttgc actgtttgca 1800
 116 ttgtcaaatt ggacgagcta cagtggaaga agaggatgcc ggagtatcgg atgaggatct 1860
 117 cactttcgt tcatggata tctctcaaa tggagaaaaat atgtacactg ttacagatcc 1920
 118 tttgaatcca gaagtatacc ttttggggg ttttacgag ccagcactcc aatttctgac 1980
 119 tggagaata tataat agaccggct ctagcgctgc gaatagaaaaa agtctttgt 2040
 120 atagcactat caagccttcc ctttatacgc tcaagcaata gaaacggaga tctacgcaat 2100
 121 ggattttcat tggatcttgc ttttgcggg aaaatgaaat tactcaaatt ttcttcagcg 2160
 122 ctacacacgc tcaaatacgc gaggaaaaacc gtatgagaaa cggatctact cgtgccgaat 2220
 123 tcggcagcgg gtctataatc ttgcagaagg agcacaattt tttgctgtcc aagggttaaa 2280
 124 tactgctgga gaaataggat actgcccctcc ttgccttca gatgcgaagc atgccttata 2340
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 130 <213> ORGANISM: Chlamydia trachomatis
 132 <400> SEQUENCE: 4
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 135 ttagctgcac agtagctggg cacagagggg ttcccggtac gtcttaacag atttgtctgg 180
 136 acttaacttt tagtgtttgg catcgcaaa agaatatttc tggtcaatg gttttttttt 240
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 138 tttttttttt atagactctg ttttgcctt gctgaaagc atctgtcgta ttctgttta 360
 139 gagatcacatc agggactaaa tagggaaatg gtatcgccaa aagtcttaaa gtcttaggag 420
 140 agctcgcatg ttcaagtgc cggagcgggt cagcgtcaaa aagaaagaag atattttaga 480
 141 ttttcctaat cttgtcgaag ttcaaatcaa gtcgtataag cagtttcttc aaatcggaa 540
 142 gttttttttt gagcggaaaaa acattggttt agaagaagtc ttcaagaaaaa ttttccat 600
 143 caagtcttat aatgaagcta cgatcttgcgtt tataacttag gagtgccaa 660
 144 atactccccca gaagagtgtt ttgcgtcgggg aatcacctat agtgttactt taaagggtcg 720
 145 ttccgttta actgtgaaaa cggggattaa agaagaagaa gtctatatgg gaaccatccc 780
 146 catcatgact cataaggaa ctttattat taatggggca gagagagtgc ttgtttctca 840
 147 agtccaccgt tctccaggaa tcaatttgtt acaagaaaaa cattctaaag ggaatgtttt 900
 148 attttctttt agaattatttc cttatcgagg aagttggta gaagctgtct tcgacattaa 960
 149 tgaccttatac tataatccata ttgatagggaa aaaacgtgc agaaagattt tagtattga 1020
 150 cgtttatccg agcttttagga tattcaacag atgcagatattt tattgaagag ttctttctg 1080
 151 tagaggagcg ttcc 1094
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 155 <212> TYPE: DNA
 156 <213> ORGANISM: Chlamydia trachomatis
 158 <400> SEQUENCE: 5
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 161 agggccatca tggatgttgc aaaaacaggat caaaaaaacc tatttctcaaa gcccctt 180
 162 tttttttttt attacaaaaaaa taaaaatcaa ttcaactttt caaaaaaaga atttaaacat 240
 163 taattgttat aaaaacaata ttttattataa aataataacc atagttgcgg gaaatctct 300

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Input Set : A:\515c2.app
Output Set: N:\CRF3\12172001\J007693.raw

164 ttcatggttt attttagagc tcataacctt aggatacgc ctaaaacatt tcctttggaa 360
 165 gttcaccatt cgttctccga taagcatctt caaattgcta aagctatgcg gattacgggg 420
 166 ataaaccctcg cagctctatc tctgctcgct gtatgcgcgt gcgttattgc cgtctctgcg 480
 167 ggaggagctg ccattcctct tgctgtcatt ggttggattt ctgcaatgtc tggctctta 540
 168 tccgctgcca ccattatctg ttctgcggaa aaggctctgg ctcaacgaaa acaaaaacaa 600
 169 ctagaagagt tgcttccgtt agataatgcg accgagcatg tgaattaccc gacccatgac 660
 170 acctcttattt ttaatcaatg ggaatcctta gatgtctaa ataaggatgtt gtctcagatt 720
 171 gacttaacta ttcaagctcc cggaaaaaaa ctataaaag aagttcttgg ttccagatac 780
 172 gattccattt atcactccat cgaagagatc tccgatcgctt ttacgaaaat gctctctt 840
 173 cttcgattaa gagaacattt ttgtcgagga gaagagcggtt atgccccctt tttaaaggcc 900
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 176 ctatatacag tattggaaatg cgctttatcc tttaggatgc tcgctggagt cgctgcttt 1080
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 183 caagatgagg cgctccgttc tcaatttagag aaacgagatc acttattccc aattccta 1500
 184 aacgacgaaa atgctaaaac taaagaatcg cagcttctag actcagaaaa tgattcaaat 1560
 185 tctgaatttc aggagattat aaataaaggaa cttagatgcg ccaataaacgc acgagctgac 1620
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 190 catgctctag acagatctt tgaatccagt gtacccatgtt tgatttgc tagagcgaat 1920
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 192 ttagataatc actaacgggtt cttccataat gacaaaaaga aaaaggagatg ctgttgcgtt 2040
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 196 <211> LENGTH: 1828
 197 <212> TYPE: DNA
 198 <213> ORGANISM: Chlamydia trachomatis
 199 <214> SEQUENCE: 6
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 202 ataaaggcat cccaaagggaaatccctggaaatc acttcatattt ctccctgtgc tagcattcga 180
 203 caagggaaac caaagattaa atcttccgtt aatccatagg gattgtggtc cgaacacact 240
 204 ccggaaagaaa accattctcc ttctttggc tgatataattt atcgagcgcg ctctgctaa 300
 205 gctcgtgtcg cagaagctgc cgaagacttc cctcgatgtt cgattactgc actaccacga 360
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 207 ataggacgggtt cattaaatcg agcttgcgtt aaatcaggca cttgtttggc ggagtgtt 480
 208 ccccaaaacca caacttgttacagccgtt aaaggtactt ctgctctatg cgataacatg 540
 209 ctatgcatac gattctggc caatcgtagt atcgatgtt gtttttttttcaataatctg 600
 210 ggagcatgtat tcattgttat ccagcaatggtatttgcacag ggttcccaac aacaaaaatc 660
 211 tttgcatttttcaataatctg gctttccattt cctggccctc taggaacttgc ccctataagg 720
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217 ccaggaatat cgtagatacg cagatcgatg ccacaatcaa ggccaaaaac atctccatga 960
218 gccagagaaa atagaaaagct ataggctatt tgccctgttc ctcctgttac tgctacactc 1020
219 actgttttag aaaccataag ccaccctctc tttactttt caaaacgcac atactctcaa 1080
220 cactacgttt gcaactaact aattttggtc ccaacatacg tttggatgt aaaagaatca 1140
221 agtacctaga ttccttagta aaagcttttgc gcaaaaaaaa gctcatctat ttttcaatag 1200
222 atgagccgac ttaactgaa taagaactta gaaaacttta taaaaaatag gcccgtgtga 1260
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224 accgtggaca tctaaaaaac caataaaccg tgcgogaata aagaacataa agcccctaaa 1380
225 aaaaacgatt taagagagaa gtaatagaca gattgttaca tattttaaaat aaaaactctg 1440
226 caaaacaaaaa aactttgcct ggcgcgtctcc gtagaaagca ctttatgttta aaacgttaaa 1500
227 aagtcttaac ataccccgag ctccgggaaa ctctacagga gcattcccg acatgtatgcc 1560
228 tataatttgc gttgccaatt ctttccctaa tggaaacccct tcttgatcaa aagaattgtat 1620
229 tccccagcaa aacccttgaa atgcaaaattt atgctcataa aaagccaata aactaccagc 1680
230 aatacggaga gaaagctgtt ggcgtacccaa tatacgaa ggtctgttcc ctttaaacct 1740
231 cttattcggg ttcgcattat ctctaccctg agctaaagct aaagatttag caacaagggtt 1800
232 tgcaaaagagc ttttgagatc tcgtgccc 1828

234 <210> SEQ ID NO: 7

235 <211> LENGTH: 861

236 <212> TYPE: DNA

237 <213> ORGANISM: Chlamydia trachomatis

239 <400> SEQUENCE: 7

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241 tggcggttag ttcctgaagg tggtaggat ttggctacca tagctccttc tatcagggtc 120
242 ccacagttac agaaatcgat gagaagctt ttccctaaga aagatgtgc gtttcatcg 180
243 tcttagttcg tattctactc tccaaatgggtt ccgcattttt gggcagagct tcgcaatcat 240
244 tatgcaacga gtggtttgaa aagcgggtac aatattggga gtaccgtatgg gtttctccct 300
245 gtcattgggc ctgttatatg ggagtccggag ggtctttcc gcgccttatat ttcttcgggt 360
246 actgatgggg atggtaagag ccataaagta ggattctaa gaattcctac atatagttgg 420
247 caggacatgg aagatttga tccttcagga ccgcctcctt gggagaatt tgctaagatt 480
248 attcaagtat ttctctctaa tacagaagct ttgattatcg accaaacgaa caacccaggt 540
249 ggttagtgc tttatcttta tgcactgctt tccatgttga cagaccgtcc tttagaactt 600
250 cctaaacata gaatgattct gactcaggat gaagtgggtt atgctttaga ttggtaacc 660
251 ctgttgaaa acgttagacac aaacgtggag tctgccttgc ctctgggaga caacatggaa 720
252 ggtatatactg tggatctaca gtttgcggag tattttaaaat gcttggacg tcaagtattg 780
253 aattgttggaa gtaaaaggaa tatacgatgtt tcaacgccta ttccctttt tggtttgag 840
254 aagattcattt cccatccctcg a 861

256 <210> SEQ ID NO: 8

257 <211> LENGTH: 763

258 <212> TYPE: DNA

259 <213> ORGANISM: Chlamydia trachomatis

261 <400> SEQUENCE: 8

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264 atcaaaagccg gaggcctggg agacgcgtt tacggacttag caaaagctt agccgctaat 180
265 cacacaacgg aagtggtaat ccctttatac cctaaattat ttactttgcc caaagaacaa 240
266 gatctttgtc cgatccaaaa attatcttattttt tttttgtc gagagcaaga agcaactgct 300
267 ttctccact tttatgaagg aattaaagta actctattca aactcgacac acagccagag 360

Use of n and/or Xaa has been detected in the Sequence Listing.

→ Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

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DATE: 12/17/2001

TIME: 10:06:43

Input Set : A:\515c2.app

Output Set: N:\CRF3\12172001\J007693.raw

L:13 M:270 C: Current Application Number differs, Wrong Format

L:5632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134